EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	("20040111633").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/05 21:58
S2	0	("2004/0111633").URPN.	USPAT	OR	ON	2007/12/05 21:37
S3	431	(726/28).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/05 21:38
S4	2765	(713/1).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/05 21:38
S5	2057	(713/193).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/05 21:38
S6	323	(714/36).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/05 21:38
S7	5474	S3 S4 S5 S6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/05 21:39
S8	3327	S7 and @ad<"20021204"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/05 21:59
S10	2	(CHANG, JEOM-JIN).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/12/05 21:39
S11	428	S8 and BIOS and serial	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/05 21:43

EAST Search History

S12	16104	manufactur$3 same (serial adj number)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/05 21:59
S13	24	manufactur$3 same (serial adj number) same BIOS same ROM	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/05 21:59
S14	14	S13 and @ad<"20021204"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/05 22:00
S15	2	S14 and (checksum or (check adj sum))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/05 22:02
S16	2	S14 and (checksum or (check adj sum) and password)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/05 22:03
S17	9	byte same add$3 same password same (serial adj number)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/05 22:03
S18	6	S17 and (checksum or (check adj sum))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/05 22:04
S19	2	S18 and BIOS	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/05 22:04

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	(serial number BIOS ROM check sum password add$3 byte).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/12/05 22:06
S2	0	(serial number BIOS ROM checksum password add$3 byte).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/12/05 22:06
S3	2	(serial number BIOS ROM password add$3 byte).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/12/05 22:07
S4	1	(serial number BIOS ROM password add$3 byte compar$3).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/12/05 22:07
S5	1	(BIOS ROM product serial number default value).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/12/05 22:07

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1 Enabling trusted software integrity   ▬
Darko Kirovski, Milenko Drinić, Miodrag Potkonjak
October 2002 **ACM SIGPLAN Notices , ACM SIGARCH Computer Architecture News , ACM SIGOPS Operating Systems Review , Proceedings of the 10th international conference on Architectural support for programming languages and operating systems ASPLOS-X**, Volume 37 , 30 , 36 Issue 10 , 5 , 5
Publisher: ACM
Full text available: 📄 pdf(1.39 MB)   Additional Information: full citation, abstract, references, cited by

> Preventing execution of unauthorized software on a given computer plays a pivotal role in system security. The key problem is that although a program at the beginning of its execution can be verified as authentic, while running, its execution flow can be redirected to externally injected malicious code using, for example, a buffer overflow exploit. Existing techniques address this problem by trying to detect the intrusion at run-time or by formally verifying that the software is not prone to a p ...

2 Terra: a virtual machine-based platform for trusted computing   ▭
Tal Garfinkel, Ben Pfaff, Jim Chow, Mendel Rosenblum, Dan Boneh
October 2003 **ACM SIGOPS Operating Systems Review , Proceedings of the nineteenth ACM symposium on Operating systems principles SOSP '03**, Volume 37 Issue 5
Publisher: ACM Press
Full text available: 📄 pdf(140.31 KB)   Additional Information: full citation, abstract, references, citings, index terms

> We present a flexible architecture for trusted computing, called Terra, that allows applications with a wide range of security requirements to run simultaneously on commodity hardware. Applications on Terra enjoy the semantics of running on a separate, dedicated, tamper-resistant hardware platform, while retaining the ability to run side-by-side with normal applications on a general-purpose computing platform. Terra achieves this synthesis by use of a *trusted virtual machine monitor* (TVMM ...

> **Keywords**: VMM, attestation, authentication, trusted computing, virtual machine, virtual machine monitor

3 Cryptography and data security   ▭

Dorothy Elizabeth Robling Denning
January 1982 Book
Publisher: Addison-Wesley Longman Publishing Co., Inc.

Full text available: pdf(19.47 MB)   Additional Information: full citation, abstract, references, cited by, index terms

From the Preface (See Front Matter for full Preface)

Electronic computers have evolved from exiguous experimental enterprises in the 1940s to prolific practical data processing systems in the 1980s. As we have come to rely on these systems to process and store data, we have also come to wonder about their ability to protect valuable data.

Data security is the science and study of methods of protecting data in computer and communication systems from unauthorized disclosure ...

4   The Google file system

Sanjay Ghemawat, Howard Gobioff, Shun-Tak Leung
October 2003 **ACM SIGOPS Operating Systems Review , Proceedings of the nineteenth ACM symposium on Operating systems principles SOSP '03**, Volume 37 Issue 5
Publisher: ACM Press
Full text available: pdf(275.54 KB)   Additional Information: full citation, references, citings, index terms

Keywords: clustered storage, data storage, fault tolerance, scalability

5   Revised Report of the Algorithmic Language Algol 68

A. van Wijngaarden
August 1981 **ALGOL Bulletin**, Issue Sup 47
Publisher: Computer History Museum
Full text available: pdf(9.20 MB)   Additional Information: full citation, index terms

6   Industry track papers: Learning nonstationary models of normal network traffic for detecting novel attacks

Matthew V. Mahoney, Philip K. Chan
July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '02**
Publisher: ACM Press

Full text available: pdf(1.12 MB)   Additional Information: full citation, abstract, references, citings, index terms

Traditional intrusion detection systems (IDS) detect attacks by comparing current behavior to signatures of known attacks. One main drawback is the inability of detecting new attacks which do not have known signatures. In this paper we propose a learning algorithm that constructs models of normal behavior from attack-free network traffic. Behavior that deviates from the learned normal model signals possible novel attacks. Our IDS is unique in two respects. First, it is nonstationary, modeling pr ...

7   Securing the drop-box architecture for assisted living

Michael J. May, Wook Shin, Carl A. Gunter, Insup Lee
November 2006 **Proceedings of the fourth ACM workshop on Formal methods in security FMSE '06**

Publisher: ACM Press
Full text available: pdf(490.78 KB)   Additional Information: full citation, abstract, references, index terms

Home medical devices enable individuals to monitor some of their own health information without the need for visits by nurses or trips to medical facilities. This enables more continuous information to be provided at lower cost and will lead to better healthcare outcomes. The technology depends on network communication of sensitive health data. Requirements for reliability and ease-of-use provide challenges for securing these communications. In this paper we look at protocols for the *drop-box* ...

Keywords: *assisted living, formal methods, formal verification, home health monitoring, security protocol verification*

8 OpenSSL hacks
Anthony J. Stieber
July 2006 **Linux Journal**, Volume 2006 Issue 147
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(23.64 KB)   Additional Information: full citation, abstract, index terms

The unsung OpenSSL command line.

9 Extending ACID semantics to the file system
Charles P. Wright, Richard Spillane, Gopalan Sivathanu, Erez Zadok
June 2007 **ACM Transactions on Storage (TOS)**, Volume 3 Issue 2
Publisher: ACM Press
Full text available: pdf(783.03 KB)   Additional Information: full citation, abstract, references, index terms

An organization's data is often its most valuable asset, but today's file systems provide few facilities to ensure its safety. Databases, on the other hand, have long provided transactions. Transactions are useful because they provide atomicity, consistency, isolation, and durability (ACID). Many applications could make use of these semantics, but databases have a wide variety of nonstandard interfaces. For example, applications like mail servers currently perform elaborate error handling to ...

Keywords: File system transactions, databases, file systems, ptrace monitors, recoverable memory

10 Minos: Architectural support for protecting control data
Jedidiah R. Crandall, S. Felix Wu, Frederic T. Chong
December 2006 **ACM Transactions on Architecture and Code Optimization (TACO)**, Volume 3 Issue 4
Publisher: ACM Press
Full text available: pdf(531.41 KB)   Additional Information: full citation, abstract, references, index terms

We present Minos, a microarchitecture that implements Biba's low water-mark integrity policy on individual words of data. Minos stops attacks that corrupt control data to hijack program control flow, but is orthogonal to the memory model. Control data is any data that is loaded into the program counter on control-flow transfer, or any data used to calculate such data. The key is that Minos tracks the integrity of all data, but protects control flow by checking this integrity when a program uses ...

Keywords: Control data, buffer overflow, worms

11 An analysis of CP/NET

George H. Clapp
December 1983 **Proceedings of the 1983 ACM SIGSMALL symposium on Personal and small computers SIGSMALL '83**

Publisher: ACM Press

Full text available: pdf(615.71 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

CP/NET, a software package designed to add networking capabilities to microcomputers running under the CP/M-80 operating system, is examined with respect to internal logical organization, separation of functions, and correspondence with the ISO OSI reference model.

12 Authentication in office system internetworks

Jay E. Israel, Theodore A. Linden
July 1983 **ACM Transactions on Information Systems (TOIS)**, Volume 1 Issue 3

Publisher: ACM Press

Full text available: pdf(1.28 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

13 The relational model for database management: version 2

E. F. Codd
January 1990 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.

Full text available: pdf(28.61 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>, <u>index terms</u>, <u>review</u>

From the Preface (See Front Matter for full Preface)

An important adjunct to precision is a sound theoretical foundation. The relational model is solidly based on two parts of mathematics: firstorder predicate logic and the theory of relations. This book, however, does not dwell on the theoretical foundations, but rather on all the features of the relational model that I now perceive as important for database users, and therefore for DBMS vendors. My perceptions result from 20 y ...

14 Advanced use of Simula

Graham Birtwistle
January 1981 **Proceedings of the 13th conference on Winter simulation - Volume 1 WSC '81**

Publisher: IEEE Press

Full text available: pdf(961.23 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

This paper is a tutorial on program development in Simula. It assumes a reading knowledge of Simula, and sketches the design of a local area network simulator (Cambridge Ring architecture) in five logical levels: machine interface, queueing, simulation primitives, data collection primitives and finally the network components. Besides program development technique, we also emphasize the value of class body actions, inner, the virtual mechanism and data protection.

15 Crypto-based identifiers (CBIDs): Concepts and applications

Gabriel Montenegro, Claude Castelluccia
February 2004 **ACM Transactions on Information and System Security (TISSEC)**, Volume 7 Issue 1

Publisher: ACM Press

Full text available: pdf(262.76 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

This paper addresses the identifier ownership problem. It does so by using characteristics of Statistical Uniqueness and Cryptographic Verifiability (SUCV) of certain entities which this document calls SUCV Identifiers and Addresses, or, alternatively, Crypto-based Identifiers. Their characteristics allow them to severely limit certain classes of denial-of-service attacks and hijacking attacks. SUCV addresses are particularly applicable to solve the address ownership problem that hinders mechani ...

Keywords: Security, address ownership, authorization, group management, mobile IPv6, opportunistic encryption

16 Smalltalk-80: the language and its implementation
Adele Goldberg, David Robson
January 1983 Book
Publisher: Addison-Wesley Longman Publishing Co., Inc.
Full text available: pdf(33.56 MB)   Additional Information: full citation, abstract, cited by, index terms, review

From the Preface (See Front Matter for full Preface)

Advances in the design and production of computer hardware have brought many more people into direct contact with computers. Similar advances in the design and production of computer software are required in order that this increased contact be as rewarding as possible. The Smalltalk-80 system is a result of a decade of research into creating computer software that is appropriate for producing highly functional and interactive ...

17 Workshop on architectural support for security and anti-virus (WASSA): A security assessment of the minos architecture
Jedidiah R. Crandall, Frederic T. Chong
March 2005 **ACM SIGARCH Computer Architecture News**, Volume 33 Issue 1
Publisher: ACM Press
Full text available: pdf(464.99 KB)   Additional Information: full citation, abstract, references, index terms

Minos is a microarchitecture that implements Biba's low-water-mark integrity policy on individual words of data. Months of testing have revealed a robust system that stops attacks which corrupt control data to hijack program control flow. The low-water-mark policy is orthogonal to the memory model so that it works with existing software and middleware. The key is that Minos tracks the integrity of all data, but protects control flow by checking this integrity when a program uses the data for con ...

18 Minos: Control Data Attack Prevention Orthogonal to Memory Model
Jedidiah R. Crandall, Frederic T. Chong
December 2004 **Proceedings of the 37th annual IEEE/ACM International Symposium on Microarchitecture MICRO 37**
Publisher: IEEE Computer Society
Full text available: pdf(255.53 KB)   Additional Information: full citation, abstract, citings

We introduce Minos, a microarchitecture that implements Biba's low-water-mark integrity policy on individual words of data. Minos stops attacks that corrupt control data to hijack program control flow but is orthogonal to the memory model. Control data is any data which is loaded into the program counter on control flow transfer, or any data used to calculate such data. The key is that Minos tracks the integrity of all data, but protects control flow by checking this integrity when a program use ...

19 Microcomputers and mainframes: A marriage of effectiveness
Michael J. D'Amore, Daniel J. Oberst
October 1983 **Proceedings of the 11th annual ACM SIGUCCS conference on User**

services SIGUCCS '83
Publisher: ACM Press
Full text available: pdf(807.49 KB)   Additional Information: full citation, abstract, index terms

> Section 1 touches on the notion of distributed processing in order to gain a perspective on the roles of mainframe computers, microcomputers and their "marriage" in the general computing environment. It then examines how the marriage is possible and looks at two appropriate uses of the micro/mainframe interface. Section 2 deals with some of the specifics: EDUNET'S involvement with microcomputer as intelligent terminal; some details on file transfer protocols; the efforts of seve ...

20 Melange: creating a "functional" internet
Anil Madhavapeddy, Alex Ho, Tim Deegan, David Scott, Ripduman Sohan
March 2007 **ACM SIGOPS Operating Systems Review , Proceedings of the ACM SIGOPS/EuroSys European Conference on Computer Systems 2007 EuroSys '07**, Volume 41 Issue 3
Publisher: ACM
Full text available: pdf(760.25 KB)   Additional Information: full citation, abstract, references, index terms

> Most implementations of critical Internet protocols are written in type-unsafe languages such as C or C++ and are regularly vulnerable to serious security and reliability problems. Type-safe languages eliminate many errors but are not used to due to the perceived performance overheads.
>
> We combine two techniques to eliminate this performance penalty in a practical fashion: strong static typing and generative meta-programming. Static typing eliminates run-time type information by checkin ...

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